

# Media Project



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# What is it?



- Project to establish a database of media files available via the Web
- Live video via the Web of important Laboratory events

# Project Requirements



- Easy access to stored or live media
- Search capability
- Data input capability (grabs your media file and uploads it)
- Runs from browser on variety of platforms
- Password protected upload
- Handles live events

# Applications



- Live events, with archival capability (colloquia, Presidential visits, etc.)
- Library catalog
- Safeguards and Security training
- ES&H training

# Library Catalog

The screenshot shows a Netscape browser window titled "Netscape: LANL Research Library: Online Catalog". The address bar displays the URL: <http://library.lanl.gov:8001/QUERY%7Fnext=html/results.html%7Fentityquo=TRUE%7Fformat>. The main content area shows "Record 2 of 10" with buttons for "Mark", "Full Record", and "Request Item". The record details are as follows:

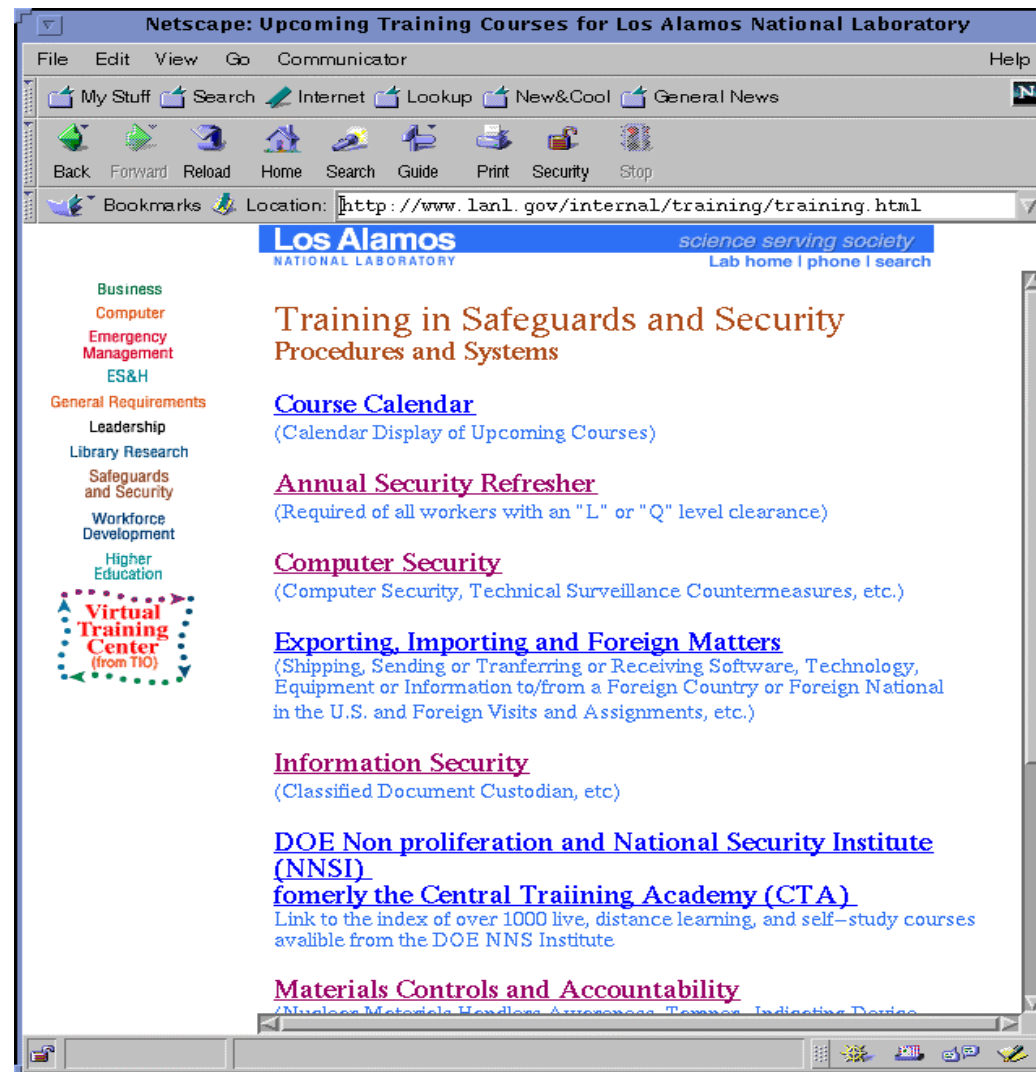
**Call No.:** [QB500 .K66 1998](#)  
**Title:** [The physics of Star Trek director's colloquium](#)[videorecording] : / Lawrence M. Krauss.  
**Author:** [Krauss, Lawrence Maxwell](#) ; [Los Alamos National Laboratory](#).  
**Published:** [Los Alamos, N.M. : Los Alamos National Laboratory,] 1998.  
**Description:** 1 videocassette (VHS) (75 min.) : sd., col. ; 1/2 in.  
**Tech. Rept. No.:** [98-105](#)

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Location	Call Number	Status
MAIN	QB500 .K66 1998 c.1	DUE: 10/29/98
WWW	1.0MB <a href="http://www.lanl.gov/realmetafiles/dir/dircolloq.062398.ram">http://www.lanl.gov/realmetafiles/dir/dircolloq.062398.ram</a>	

The browser's status bar at the bottom shows a zoom level of 100% and various system icons.

# Safeguards & Security



# Safeguards & Security

The screenshot shows a Netscape browser window titled "Netscape: Upcoming Training Courses for Los Alamos National Laboratory". The address bar shows the URL "http://www.lanl.gov/internal/training/training.html". The page features a navigation menu on the left with links to various categories: Business, Computer, Emergency Management, ES&H, General Requirements, Leadership, Library Research, Safeguards and Security, Workforce Development, Higher Education, and a Virtual Training Center (from TIO). The main content area is titled "Computer Security" and displays a table of upcoming training courses.

Title	Course #	Start	Sponsor
• <a href="#">Initial Computer Security Awareness</a>	9369	Available on Web	FSS-DO
• <a href="#">Annual Computer Security Awareness</a>	9369	Available on Web	FSS-DO
• <a href="#">Technical Surveillance Countermeasures (TSCM) Briefing</a>	12890	Available on Web	FSS-DO

# ES&H Training

Business  
Computer  
Emergency Management  
EE&H  
General Requirements  
Leadership  
Library Research  
Safeguards and Security  
Workforce Development  
Higher Education  


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[Facility General](#)

**Health**  
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[Confined Space](#)  
[Ergonomics](#)  
[First Aid/CPR](#)  
[Physical](#)  
[Respiratory](#)

**General Employee Training (GET)**  
Required for **all** new employees and contractors

**Packaging and Transportation**  
[Core](#)  
[Driving](#)  
[Forms](#)  
[Specific Hazards](#)

**Radiation**  
[Criticality](#)  
[Dosimetry](#)  
[General Worker](#)  
[Radiological Control](#)  
[Technician](#)  
[Radiological Worker](#)

**Safety**  
[Cranes](#)  
[Driving](#)  
[Electrical](#)  
[Fire](#)  
[Forklift](#)  
[Laser](#)  
[Lockout/Tagout](#)  
[OSHA](#)  
[Parts/Equipment](#)  
[Pressure/Cryogen](#)  
[Shop](#)  
[Welding](#)

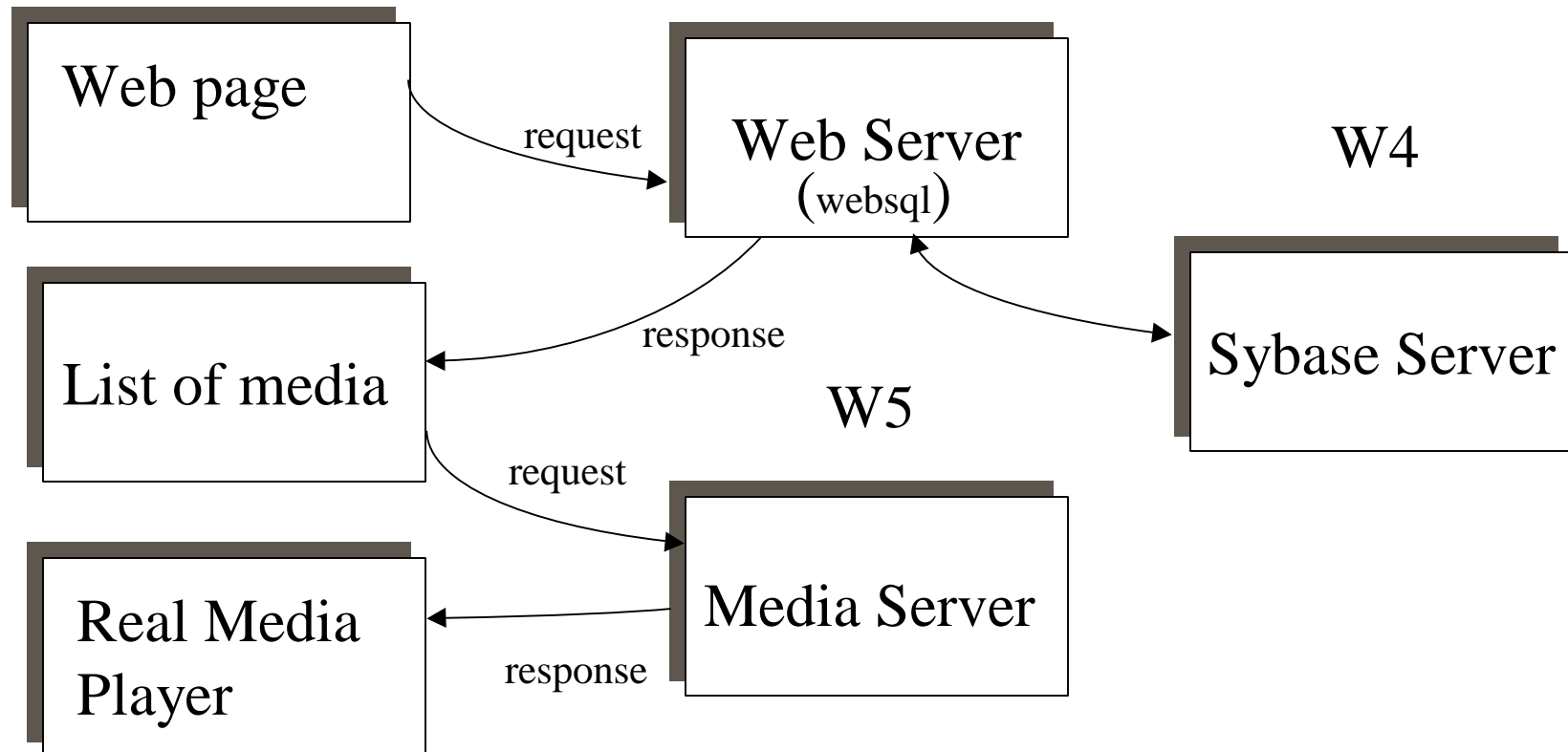
[Skilled Crafts](#)  
[ES&H Training and Calendar](#)



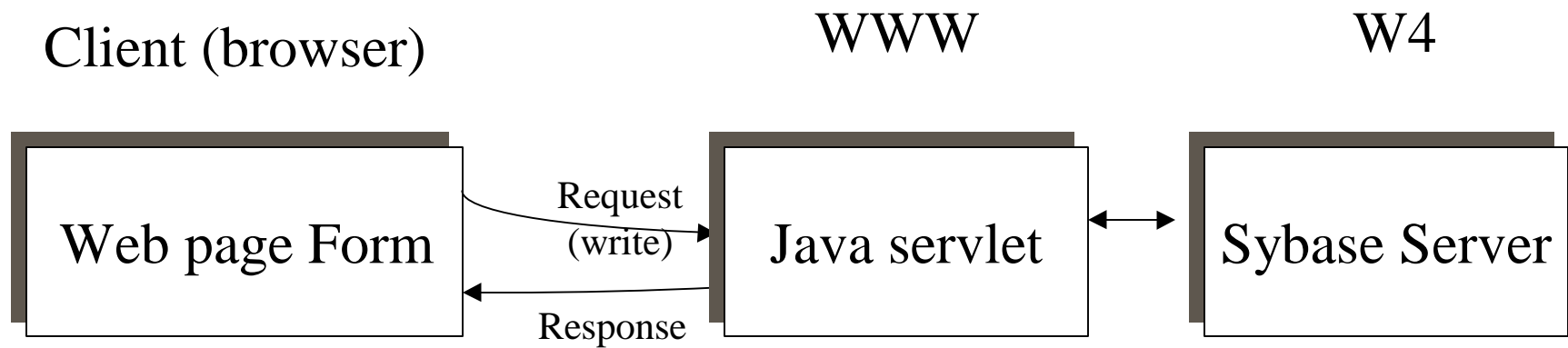
# Retrieval

Client (browser)

WWW



# Data Input



# Software used in Development



- Browse page: WebSQL, perl, html
- Search page: javascript, WebSQL, perl, html
- Data Input page: html, Java

# Server Software



- PC: Progressive Networks encoder
- W5: Progressive Networks Server, jConnect/Cascade server (websql)
- WWW: Web server, SYBASE

# Client Software



- Browser
- Free Real Media player

# Advantages



- Makes training easier and cheaper (from the users' desktop)
- Live events available to more people
- Live events are archived for those who missed them

# Future Work



- Add to media collection
- Continue to encode live events
- Watch traffic on snow days for early warning of delays
- Continue to look to new areas where this technology would be a plus